

Country : Poland
 Category :

G-2

Abs. Jour :

45885

Author : Belzecki, C. and Urbanski, T.

Institut. : Not given

Title : Thiosemicarbazones of Keto Acids. III. Thio-
 semicarbazones of Ethyl Esters of Acetylacetic
 Acids and Their Derivatives.

Orig Pub. : Roczniki Chem, 32, No 4, 779-787 (1958)

Abstract : In the course of the search for new antitubercular
 agents the authors have synthesized a series of
 compounds having the structure $\text{RCSNHN}=\text{C}(\text{R})\text{CH}_2\text{COO}-$
 C_2H_5 (I). When I are heated or dissolved in NH_4OH ,
 cyclization to 1-thioformamido-5-aryl-5-pyrazo-
 lones (II) occurs. A number of 3-aryl-5-pyrazo-
 lones (III) and 3-aryl-5-isooxazolones (IV) have
 also been prepared. 0.1 mol $\text{RCOCH}_2\text{COOC}_2\text{H}_5$ (V) in
 hot alcohol is treated rapidly with 0.1 mol
 $\text{NH}_2\text{CSNHNH}_2$ (VI) in 10 mol water, the solution is

Card: 1/8

Country	: Poland	G
Category	: Organic Chemistry. Synthetic Organic Chemistry	
Abstr. Jour.	: Ref Zhur-Khindiya, No. 10, 1958, No. 42375	
Author	:	
Institut.	:	
Title	:	
Chem. Pub.	:	
Abstract	: Decisive significance. However Ia, b have a high tuberculostatic activity. Introduction of the COOH group considerably lowers (to about 1/300) the tuberculostatic activity in vitro. See report I in Ref Zhur-Khindiya, 1958, No. 10, 32371. -- V. Skorodumov.	

Country : Poland
 Category : Organic Chemistry. Synthetic Organic Chemistry
 Pub. Jour. : Ref Zhur-Khimiya, No.12, No.42375
 Author :
 Institut. :
 Title :

Orig. Ref. :

Abstract : upon cooling; II is separated ($R=NH_2$, $R^1=H$, $n=8$), the yield is 3%; the melting point is 134° (from benzoyl). All (I) products in the concentrations of 1.5-12.5% ng are active against Mycobacterium BCG or H37Rv, but are inactive against M. avium. The tuberculostatic activity of compounds containing the CH_2O group is somewhat higher than the tuberculostatic activity of compounds containing the NH_2 group. The length of the aliphatic chain apparently has no

Cont: 5/6

Country : Poland G
 Category : Organic Chemistry. Synthetic Organic Chemistry

Abs. Jour. : Ref Zhur-Khimiya, No.12, No.42375

Author :
 Institut. :
 Title :

Orig Pub. :

Abstract : polyanhydride is poured into the suspension of 1.5 moles $AlCl_3$ in CS_2 at $0-5^\circ$; the temperature is raised to about 40° ; the mixture is stirred for 3 hours and then set out for 48 hours at about 20° ; the reaction product is decomposed with ice and HCl; the residue is dissolved in 70 g. of $NaHCO_3$ in 1.2 liters of water; the filtrate is acidified with CH_3COOH ; the residue is boiled for 15 minutes with 200 ml. of 10% HCl; 50 ml. of saturated CH_3COONa are added

4/6

Country : Poland G
 Category : Organic Chemistry, Synthetic Organic Chemistry
 Lit. Jour. : Ref. Zhur-Khimiya, No. 12, 1959, No. 42375
 Author :
 Institut. :
 Title :

Orig. Ref. :

Abstract : evaporated; the residue is diluted with 300 ml. of water; 20 ml. of concentrated HCl are added; the filtrate is cooled to 5°; 50 ml. of 20% NaOH are added; the yield of II is 54% (R=NH₂, R'=C₂H₅, n=1), the melting point is 83-84° (from benzene); acetyl derivative, yield 82%, the melting point 95-98° (from dilute alcohol). II (R=CH₃O, R'=C₂H₅, n=1), yield is 48%, boiling point 175-182°/8 mm. The pulverized mixture of 0.5 mole C₆H₅NHCOOCH₃ and 0.5 mole of sebacic

Card: 3/6

Country : Poland G
 Category : Organic Chemistry, Synthetic Organic Chemistry
 Abs. Jour. : Rep Khim. Khim., No. 12, 1959, No. 42375
 Author :
 Institut. :
 Title :

Orig. Pub. :

Abstract : CH_3CONH , H, 0, 85, 199 (decomposition); CH_3O ,
 H, 0, 75, 163-164 (decomposition); LE_2 , C_2H_5 , 1,
 65, 182 (decomposition); $\text{CH}_3\text{OCH}_2\text{CH}_2$, C_2H_5 , 1, 63, 152
 (decomposition); CH_3O , C_2H_5 , 1, 62, 123-124
 (decomposition); NH_2 , H, 2, 35, 126 (decomposi-
 tion); OH , H, 2, 48, 224-225 (decomposition);
 NH_2 , H & (Ia), 54, 127; CH_3O , H, 8 (Ib), 42, 113,
 0.1 mole 4- $\text{NO}_2\text{C}_6\text{H}_4\text{OCH}_2\text{COOC}_2\text{H}_5$ in 500 ml. of
 absolute CH_3OH are hydrogenated for 4 hours over
 0.3 g of PtO_2 at 40-45°; the filtrate is

Card: 2/5

Country : Poland
 Category : Organic Chemistry, Synthetic Organic Chemistry
 Ref. Jour. : Ref. Khim. Khimiya, No. 12, 1959, No. 42375
 Author : Balicki, Jozef; Habański, Tadeusz
 Institut. : Not given
 Title : Thiocarbonylhydrazones of keto acids. II.
 Thiocarbonylhydrazones of keto acids.

Orig. Publ. : Russ. chem. 1958, 21, No. 4, 769-773

Abstract : A series of $\text{H}_2\text{C}(\text{CH}_2)_n\text{COOH}=\text{C}(\text{C}_6\text{H}_5)_2$ (I) was synthesized for the purpose of producing tuberculostatically active compounds. 0.1 mole $\text{H}_2\text{C}(\text{CH}_2)_n\text{COOH}$ in 10 cl. of boiling water is added to a boiling solution of 0.1 mole 4- $\text{R}(\text{C}_6\text{H}_5)_2\text{CO}$ (II) in 10 cl. of alcohol. The mixture is boiled for 0.5-0.6 hours with a few drops of HCl added; (I) is then obtained. (The article cites R, R', n, yield in % and melting point in $^\circ\text{C}$ (from alcohol) as follows):

Page: 1/6

URBANSK, Tadeusz; BEJZECKI, Czeslaw; CHACHELSKA, Bozena; CHYLINSKA, Barbara;
DABROWSKA, Halina; FALECKI, Jerzy; GURNE, Daniela; HAIISKI, Leszek;
MALINOWSKI, Stanislaw; SERAFINOWA, Barbara; ZYLOWSKI, Jerzy; SLOPEK,
Stefan; KAMIENSKA, Irena; VENULET, Jan; JANOWIEC, Mieczyslaw; JAKIMOWSKA,
Krystyna; URBANSKA, Alicja; KUZNIEWICOW, Anatol

Searching for new anti-tuberculosis drugs. Gruzlica 26 no.11:889-917
Nov 58.

1. 2 Zakladu Syntezy Lekow Instytutu Gruzlicy Kierownik Zakladu: prof.
dr T. Urbanski Dyrektor Instytutu: prof. dr J. Misiewicz Pracownia Synt.
Lekow Przeciwgruzliczych, Warszawa, ul. Koszykowa 75.

(TUBERCULOSIS, therapy,

investigation of 300 cpds. for anti-tuberc. eff. (Pol))

POLAND / Organic Chemistry. Synthetic Organic Chemistry.

G-2

Abs Jour : Ref Zhur - Khim., No 10, 1958, No 32371

$\text{CH}_3\text{C}=\text{NN}(\text{CSNH}_2)\text{CO}=\text{NNHCSNH}_2$ (VII) is obtained, yield 23%, melting point 208° (dissociates, from $\text{CH}_3\text{CONHCH}_3$ -water); VII is obtained in the similar way at the hydrolysis and cyclization of IV or at the hydrolysis of VI in the presence of equimolar amounts of II; yield 22 and 49%.

Card 3/3

POLAND / Organic Chemistry. Synthetic Organic Chemistry.

G-2

Abs Zhur : Ref Zhur - Khim., No 10, 1958, No 32371

94 to 95°), yield 30%, melting point 161 to 162° (dissociates, from alcohol and water); IV is obtained also of I and II (0.1 mole of each) in 100 mlit of hot water at a yield of 95%. III reacting with NH_3 cyclizes into $\text{CH}_3\text{C}=\text{NN}(\text{CSNH}_2)\text{COCH}_2$ (V), yield 68%. 0.1 mole of IV is dissolved in concentrated NH_4OH at 40 to 50°, cooled to 0°, the precipitate is dissolved in 200 mlit of water at about 40°, acidified with dilute HCl, and $\text{CH}_3\text{C}=\text{NN}(\text{CSNH}_2)\text{COC}=\text{NOH}$ (VI) is obtained, yield 59%, melting point 180 to 182° (dissociates, from alcohol); VI is obtained also at the nitrosation of V with a yield of 30% (see synthesis of I). 0.1 mole of I is added to the solution of 0.2 mole of II in 40 mlit of 25%-ual H_2SO_4 + 250 mlit of water, the mixture is heated 1 hour (bath temperature = 100°), cooled, filtered, and the precipitate is extracted with hot water and, after that, with alcohol,

Card 2/3

BELZECKI, C.

POLAND / Organic Chemistry. Synthetic Organic Chemistry

G-2

Abs Jour : Ref Zhur - Khim., No 10, 1958, No 32371

Author : Czeslaw Belzecki, Tadousz Urbanski

Inst : -

Title : Thiosomicarbazones of Keto Acids. I. α, β -Thiosomicarbazones of acetoacetic ester and Its Conversions.

Orig Pub : Roczn. chem., 1956, 30, No 3, 781-787

Abstract : The reaction of $\text{CH}_3\text{COC}(=\text{NOH})\text{COOC}_2\text{H}_5$ (I) with $\text{NH}_2\text{NHCSNH}_2$ (II) was studied. 0.3 mole of NaNO_2 in 30 mlit of water is added to 0.3 mole of $\text{CH}_3\text{COCH}_2\text{COOC}_2\text{H}_5$ in 60 mlit of glacial CH_3COOH at a temperature below 10° in 3 hours' time stirring it continuously, the mixture is diluted with 300 mlit of water and extracted with ester; I is obtained, the yield of the raw I is 15 g, it explodes if distilled in vacuo. Thiosomicarbazone of I (IV) is synthesized similarly of $\text{CH}_3\text{C}(=\text{NNHCSNH}_2)\text{CH}_2\text{COOC}_2\text{H}_5$ (III) (obtained at a yield of 83%, melting point

Card 1/3

Betzecki, Cz

L

POL.

New thiosemicarbazones. T. Urbanek and Cz. Betzecki:
(Inst. Chem., Warsaw). *Roczniki Chem.* 28: 677-680
(1954) (English summary). Thiosemicarbazones of the
following acids were prepared: p-acetamidobenzoylformic, m.
180°; p-hydroxybenzoylpropionic, m. 192°; p-acetamido-
benzoylpyruvic, m. 178-80° and of the *Et* esters of the
following substituted acetic acids: p-nitrobenzoyl, m.
138°; p-aminobenzoyl, m. 145°; nicotinoyl, m. 217°;
isochlorinoyl, m. 162°; and p-acetaminobenzoylpyruvic
acid, m. 125°. No preparative details given. The compds.
are being tested for tuberculostatic activity. C. F.

BELŻECKI, Cz.

4001

547.538.1-381

Belżcki, Cz. Lange J. Concerning the Reaction of 1,2-Epoxy-1-Phenyl-
propane with Methylamine.Reakcja 1,2-epoksy-1-fenylpropanu z metyloaminą. Roczniki
Chemii (PAN), No. 4, 1954, pp. 561-568, 1 fig.

An investigation was made of the reaction of 1,2-epoxy-1-phenylpropane and methylamine. When the epoxide applied was obtained from trans-1-phenylpropane-1, only two isomeric aminoalcohols were found in the mixture of reaction products — namely ephedrine and isoephedrine in the ratio of 1:9. 1,2-epoxy-1-phenylpropane was prepared in two different ways: directly — using perphthalic acid as the oxidizing agent and indirectly — by preparing a corresponding bromohydroxy compound and subsequently dehydrobrominating it in alkaline medium. In the epoxidation process, trans-1-phenylpropane-1 was used as a starting material; the compound was prepared by isomerization of the cis-trans mixture during prolonged boiling with alcoholic KOH. The epoxide compound — irrespective of the manner of preparation — yielded when treated with alcoholic solution of methylamine under slight pressure, only the two aminoalcohols mentioned. Ephedrine and isoephedrine were isolated and purified as oxalates, advantage being taken of a wide divergence in the solubility of these salts in water. It was proved that in the conditions of the process described the epoxide linkage breaks, preferably at the phenyl radical yielding in 80% isoephedrine and only in 10% ephedrine. The presence of 4-ephedrine in the reaction products was not observed, a fact confirming the relatively high degree of purity of the trans hydrocarbon applied.

BELZECKI, C.; LANGE, J.

"Ephedrine", p. 536, (PRZEMYSŁ CHEMICZNY, Vol. 10, No. 10, Oct. 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), IC, Vol. 4, No. 5, May 1955, Uncl.

RACZYNSKA-BOJANOWSKA, Konstancja; BELZECKA, Krystyna

Transamination in insects III. The effect of metal ions on aspartate:
 α -ketoglutarate aminotransferase in *Celerio euphorbiae*. Acta biochim.
polon. 9 no.2:111-115 '62.

1. Department of Physiological Chemistry, Medical School, Warszawa.
(TRANSFERASES metab) (METALS pharmacol)
(INSECTS metab)

BELZECKA, Krystyna; LASKOWSKA, Teresa; MOCHNACKA Irena

The tyrosine transamination and tyrosine content in *Celerio euphorbiae*.
Acta biochim. Pol. 9 no.1:55-62 '62.

1. Department of Physiological Chemistry, Medical School, and Institute
of Biochemistry and Biophysics, Polish Academy of Sciences, Warszawa.

(TYROSINE metab) (INSECTS metab)

BELZECKA, Krystyna; LASKOWSKA, Teresa

Hydroxylation of phenylalanine in animals. Postepy biochem. 8 no.4:
462-475 '62.
(PHENYLALANINE) (TYROSINE)

BELZECKA, Krystyna; RACZYNSKA-BOJANOWSKA, Konstancja

Studies on transamination in insects. II. Enzyme-coenzyme connection and coenzyme requirement in aspartic-a-ketoglutaric transaminase in *celerio euphorbiae*. *Acta biochim.polon.* 7 no.2/3:193-201 '60.

1. Department of Physiological Chemistry, Medical School, Warsaw.
Kierownik: prof. dr J.Heller.

(TRANSAMINASES metab.)

(INSECTS metab)

(ISONIAZID pharmacol)

RACZYNSKA-BOJANOWSKA, Konstancja; BELZECKA, Krystyna

Transamination. Postepy biochem 6 no.2:163-180 '60.
(AMINO ACIDS metab.)
(TISSUE METABOLISM)

BELZECKA, K.; RACZYNSKA-BOJANOWSKA, K.; HELLER, J.

Studies on transamination in insects. I. Aspartate-ketoglutaric transaminase in *Celerio euphorbiae* L. Acta biochim. polon. 6 no.2:195-203 '59.

1. Zaklad Chemii Fizjologicznej, Akademia Medyczna, Zaklad Biochemii Ewolucyjnej, Instytut Biochemii i Biofizyki PAN, Warszawa.

(TRANSAMINASES - metabolism)
(INSECTS - metabolism)

ILLEGIBLE

BELZECKA, K.; CHMIELEWSKA, I.

Effect of glucose on utilization of intravenous cattle blood protein hydrolysate in humans. Acta biochim. polon. 3 no.4: 497-510 1956.

1. Z Zakładu Chemii Fizjologicznej A.M. w Warszawie i Katedry Chemii Organicznej U.W.

(AMINO ACID MIXTURES,

protein hydrolysates from cattle plasma, eff. of glucose on utilization in humans (Pol))

(GLUCOSE, effects,

on protein hydrolysate from cattle plasma utilization in humans after intravenous admin. (Pol))

Boleska, K.

✓ Use of hydrolyzate of bovine blood protein for intra-venous administration in man. K. Raczyńska-Bojanow-^{MD} ska, K. Boleska, and J. Manicki. *Acta Physiol. Polon.*, 1952, 180-72. *Excerpta Med.*, Sect. II, 7, 207 (1952). Six healthy men were kept on a full caloric diet consisting of carbohydrates and fat, supplemented by intra-venous administration of 8-10 g. of this hydrolyzate daily. In 3 cases the hydrolyzate was given with glucose and in 3 cases alone. The biol. value of the hydrolyzate when given with glucose was smaller than when given alone, as was indicated by the amino-N excretion. R. D. H.

(2)

BELZA, Igor

USSR/ Miscellaneous - Music

Card 1/1 : Pub. 124 - 34/33

Authors : Belza, Igor

Title : Valuable investigation on the history of Russian musical culture

Periodical : Vest. AN SSSR 7, 123-128, July 1954

Abstract : Historical data on the development of musical culture in Russia, are presented.

Institution :

Submitted :

BELYY, Yu.A.

L. Euler's textbook on elementary geometry. 1st. mat. issl.
no.14:237-284 '61. (MIRA 16:10)

(Geometry)

BELYY, Yu.A.; SHVETSOV, K.I.

One Russian geometry manuscript written in the first quarter of the
17th century. Ist.-mat. issl. no.12:185-244 '59. (MIRA 13:11)
(Geometry, Plane)

BELYY, Ya.N.
LUKANSKIY, N.N., kapitan; MATVEYEV, V.P., kapitan; BELYY, Ya.N., starshiy
leytenant.

Methodology in teaching computations for antiaircraft guns.
Artill. zhur. no.1:13-17 Ja '58. (MIRA 11:2)
(Antiaircraft guns)

BELYY, Ya. M.

YEVLAKOVA, V.F.; BELYY, Ya.M.; POTAPOV, N.I.; SERBINENKO, G.A.

The effect of removal of trees in marshlands along the lower Dnieper on the number and species of blood-sucking insects. Med.paraz. i paraz.bol. 27 no.1:100-101 Ja-F '58. (MIRA 11:4)

1. Iz Ukrainского instituta malyarii i meditsinskoy parazitologii i parazitologicheskogo otdela Zaporozhskoy oblastnoy sanitarno-epidemiologicheskoy stantsii.

(INSECTS.

blood-sucking species in lower Dnieper region, eff. of removal of trees (Rus))

Belyy, Ya. M.
 MOROZOVSKAYA, M.I.; DEMCHENKO, I.A.; TISHCHENKO, O.D.; GORELYSHEVA, I.I.;
 YEVLAKHOVA, V.F.; NADTOCHKIY, S.S.; GAL'PERIN, L.Yu; BELYI, Ya.M.;
 LAZENYY, N.V.; DERJVENKO, V.I.; SERVINENKO, G.A.; ~~SHIVONEN, M.A.~~
 D'YACHENKO, V.I.; AGAFONOV, N.I.; BOKSFAMIL'NAYA, P.S., CHERNENKO, Yu.L.

Preventive antimalaria measures for lumberjacks employed in clearing
 the bed of the future Kakhovka Reservoir. Med.paraz. i paraz.bol.24
 no.3:207-208 J1-S '55. (MLRA 8:12)

1. Iz Ukrainского nauchno-issledovatel'skogo instituta malyarii i
 meditsinskoj parazitologii imeni prof. V. Ya. Rubashkina (dir.
 instituta I.S.Demchenko) i Zaporozhskoy, Dnepropetrovskoy i
 Khersonskoy oblastnykh protivomalyariynykh stantsiy.
 (MALARIA, prevention and control,
 in Russia, in forest workers)

BELYY, YA.M.

"Elimination of Tropical Malaria in Zaporozhskaya Oblast," Ya.M. Belyy, I. Yu. Gal'pern, Zaporozhskaya Oblast Antimalaria Sta.

Med Parazitol i Parazitar Bol, no. 3, pp. 221-223 May/June 1953

As a result of the German occupation, the incidence of tropical malaria in Zaporozhskaya Oblast increased considerably. By the application of rigid measures in postwar years, tropical malaria was entirely eliminated in 1952. The number of cases was as follows:

1946---226
1947---335
1948---558
1949---297
1950---25
1951---3
1952---none

257148

DEREVENKO, V.I.; BILYY, Ya.M., zaveduyushchiy.

~~WATER-SUPPLY~~
Role of free-flowing artesian wells in malarial incidence in the general water-supply and irrigation zones of the South Ukrainian canal. Med. paras.i paraz.bol. no.2:127-133 Nr-Ap '53. (MLRA 6:6)

1. Zaporozhskaya oblastnaya protivomalyariynaya stantsiya.
(South Ukrainian Canal Region--Malarial fever) (Artesian wells)

OVCHINNIKOV, K.M.; MOROZOVSKAYA, M.I.; TISHCHENKO, O.D.; DEMCHENKO, I.A., direktor;
NADTOCHIY, S.S.; GORELYSHEVA, I.I.; BEL'SKAYA, M.K.; KONTOROVSKAYA, T.M.;
~~BELYY, Ya.M.~~, zaveduyushchiy; DEREVENKO, V.I.; SHEVCHUK, M.K., zaveduyushchiy;
D'YACHENKO, V.I.; SAKOVICH, V.K.; AGAFONOV, I.N., zaveduyushchiy; BESFAMIL'-
NAYA, P.S.

Prognosis of malarial incidence of a locality and organization of antimalarial measures in the zone of the future Kakhovka reservoir. Med.paraz. i parazitolog. no.2:109-116 Mr-Apr '53. (MLRA 6:6)

1. Ukrainskiy institut malyarii i meditsinskoy parazitologii imeni profes-sora Rubashkina (for Demchenko). 2. Zaporozhskaya oblastnaya protivomalyariynaya stantsiya (for Belyy). 3. Dnepropetrovskaya oblastnaya protivomalyariynaya stantsiya (for Shevchuk). 4. Khersonskaya oblastnaya protivomalyariynaya stantsiya (for Agafonov).

(Kakhovka reservoir region--Malarial fever)

(Malarial fever--Kakhovka reservoir region)

AUTHOR: [REDACTED] | BIRTH: [REDACTED] | PORTLAND: [REDACTED]

ISSN 0258-790X Dnepropetrovsk Institute of Economics and Statistics, no. 9, 1985, pp. 161

1. A dense forest of tall trees. 2. A fire burning through the forest floor. 3. A fire burning through the forest floor with smoke rising. 4. A fire burning through the forest floor with smoke rising and trees in the background.

ABSTRACT: The surface of dental enamel introduces a silicate low-boron enamel which is made up of silica, sodium silicate, sodium nitrate, mycolite, titanium dioxide, zirconium dioxide, hydroxyapatite and a substance which contains boron compounds. The enamel is then fired in a sodium disilicate concentrate is used as the substrate. The enamel is then fired in a sodium disilicate concentrate is used as the substrate.

DISCUSSION

NO 27 90V 000

44117

March 1990

21B COLLEGE

OTHER: 000

BELYAYEV, G.I., doktor tekhn. nauk; BELYI, Ya.I., inzh.

Effect of fluorine on the properties of low-melting enamels.
Stek. i ker. 22 no.4:34-36 Ap '65.

(MIRA 18:5)

1. Dnepropetrovskiy khimiko-tekhnologicheskii institut.

BELYAYEV, G.I., doktor tekhn. nauk; BELYI, Ya.I., inzh.

Fusible enamel coatings with titanium content. Mashinostroenie
no.3:33-35 My-Je '64. (MIRA 17:11)

BEYY, Ya.I.; BEYAYEV, G.I.

Interaction of borosilicate melts and steel. Trudy DOKTI no.16:
71-76 '62 (MIRA 17:8)

BELYAYEV, G.I., doktor tekhn.nauk; BELYY, Ya.I.; SMAKOTA, N.F.

Effect of clay on some properties of enamel. Stek. i ker. 19
no.6:29-31 Je '62. (MIRA 15:7)
(Enamel and enameling) (Clay)

BELYY, V.K., inzh.

Shifting method of constructing spans with the aid of floating supports.
Transp. stroi. 15 no.5:15-17 My '65. (MIRA 18:7)

BELYY, V.K., inzh.; EPSHTEYN, A.M., inzh.

Erection of the superstructure of the bridge over the
Yenisey River in Krasnoyarsk. Transp.stroi. 12 no.7:18-20
Jl '62. (MIRA 16:2)
(Krasnoyarsk—Bridge construction)

L 1640-66

ACCESSION NR: AP5014850

3
sure against the temperature showed no anomalies. At low temperatures (14 -- 40K) the specific heat is proportional to the temperature raised to the 2.7 power. At higher temperatures the power is lower, and at temperatures 13 -- 20K it is equal to 2.7, increasing to the third power as called for by the Debye law. It is pointed out in the conclusion that there are no published data on the specific heat of black phosphorus. Orig. art. has: 1 table and 1 figure.

ASSOCIATION: Institut teplofiziki Sibirskogo otdeleniya Akademii nauk SSSR (Institute of Thermophysics, Siberian Department, Academy of Sciences, SSSR)

SUBMITTED: 17Feb65

ENCL: 00

SUB CODE: TD, GP

NR REF SOV: 002

OTHER: 005

Card

2/2 *SP*

L 1640-66 EWT(d)/EWT(1)/EWT(m)/EPF(c)/EEC(k)-2/EPF(n)-2/T/EWP(t)/EWP(b)/ETC(m)
IJP(c) JD/WW

ACCESSION NR: AP5014850

UR/0020/65/162/003/0543/0545

AUTHORS: Paukov, I. Ye.; Strelkov, P. G. (corresponding member 44.55 65
AN SSSR); Nogteva, V. V.; Belyy, V. I. 44.55 62 B

TITLE: Specific heat of black phosphorus at low temperatures 44.55 21, 44.55

SOURCE: AN SSSR. Doklady, v. 162, no. 3, 1965, 543-545

TOPIC TAGS: entropy, enthalpy, phosphorus, specific heat, low temperature research

ABSTRACT: The purpose of this investigation was to determine the true specific heat of the crystalline modification of black phosphorus, and also to calculate the values of the absolute entropy and enthalpy under standard conditions. The sample investigated was obtained by means of a high pressure bomb, capable of operating up to 13,000 -- 14,000 kg/cm² at temperatures up to approximately 3000. The apparatus and the test procedure were essentially similar to those described earlier (P. G. Strelkov et al., ZhFkh v. 28, No. 3, 459, 1954). The results are tabulated. A plot of the specific heat at constant pres-

Card 1/2

БЕЛЫЙ, В.И. [Bilyi, V.I.]

Constructive properties of certain classes of functions continuous
in regions with angles. Izv. AN USSR no. 3: 273-276, 1964,
(MIRA 18:3)

1. Institut matematiki AN USSR.

BELYY, V.I. [Bilyi, V.I.]

Some properties of fractional derivatives in a complex region and their application to the theory of approximation of functions. *Dop. AN URSR* no.2:167-170 '65.

(MIRA 18:2)

1. Institut matematiki AN UkrSSR.

L 02350-67 EWT(1)/EWT(m)/T/EWP(t)/ETI IJP,c) JD/GG

ACC NR: AR6025736

SOURCE CODE: UR/0058/66/000/004/A069/A069

AUTHOR: Belyy, V. I.; Kuznetsov, F. A.

TITLE: Polishing of single crystals by etching with gaseous hydrogen halides

SOURCE: Ref. zh. Fizika, Abs. 4A584

REF SOURCE: Sb. Simpozium, Protsessy sinteza i rosta kristallov i plenok poluprovodnik. materialov, 1965. Tezisy dokl. Novosibirsk, 1965, 2-3

TOPIC TAGS: germanium, silicon, etched crystal, halide, hydrogen compound, crystal growing, surface finishing

ABSTRACT: This is a review of known procedures for obtaining polished Ge and Si surfaces by gas etching. The possibility of obtaining a polished surface of Ge with the aid of gaseous hydrogen iodide and bromide is demonstrated experimentally; the limits of the polishing regions are established. The obtained surfaces are homogeneous, and the deviations from planarity amount to several hundred Angstroms. For the three most important processes of epitaxial growing of films from the gas phase, namely iodide, chloride, and bromide, gaseous polishing etchants are obtained, which can be successfully incorporated in the growth technology, and make it possible in each of the processes to reduce to a minimum the number of components participating in the growing. [Translation of abstract]

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B103/B101

Thermodynamical properties of...

1 figure, 5 tables, and 14 references: 5 Soviet and 9 non-Soviet. The four most important references to English-language publications read as follows: Ref. 1: D. H. Parkinson, F. E. Simon, F. H. Spedding, Proc. Roy. Soc., 207, 137 (1951); Ref. 7: K. Kiukkola, C. Wagner, J. Electrochem. Soc., 104, 379 (1957); Ref. 10: L. S. Danken, R. W. Garry, J. Am. Chem. Soc., 61, 1398 (1945); Ref. 14: G. Brauer, K. A. Gingirich, U. Holtachmidt, J. Inorg. and Nucl. Chem., 16, 77 (1960). X

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova
(Moscow State University imeni M. V. Lomonosov)

SUBMITTED: May 5, 1961

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Thermodynamical properties of...

G. Brauer et al. (Ref. 14, see below). The thermodynamical values describing the reaction $\text{Ce}_2\text{O}_3 + 1/2 \text{O}_2 \rightarrow 2\text{CeO}_2$ (VI) were obtained by graphical integration of the $\Delta\bar{G}_{\text{III}}^0$ isotherms for the composition of CeO_x between $1.5 \leq x \leq 2$ for 973, 1073, 1173, and 1273°K. On the basis of these data and of the value $(\Delta H_{298})_{\text{VI}} = -85.43$ kcal, and considering the temperature dependence of the specific heat of CeO_2 and Ce_2O_3 , the following

equation was derived for the range 298-1273°K:

$\Delta G_{\text{VI}}^0 = -85,500 - 4.007 \log T + 1.495 \cdot 10^{-3} T^2 - 0.47 \cdot 10^5 / T + 35.8 T$. After determining $(\Delta S_{298}^0)_{\text{VI}}$ and assuming $S_{298}^0 = 16.64$ entropy units for cerium (Ref. 1, see below) and $S_{298}^0 = 14.89$ entropy units for CeO_2 , the authors obtain $(S_{298}^0)_{\text{Ce}_2\text{O}_3} = 30.8$ entropy units. On the strength of this value

and of other data presented above, all thermodynamical values of the reaction $2 \text{Ce} + 3/2 \text{O}_2 \rightarrow \text{Ce}_2\text{O}_3$ (VII) can easily be calculated. There are

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$0.947 \text{ Fe} + 0.5 \text{ O}_2 \rightarrow \text{Fe}_{0.947} \text{O}$ (II); for which $\Delta G_{\text{II}} = -63,570 + 16.06 T$ (1073 - 1270°K) according to Ref. 10 (see below) and H. Peters, H. H. Möbbius (Ref. 11: Zs. phys. Chem., 209, 298 (1958)), makes it possible to calculate the reaction ($\Delta \bar{G}_{\text{III}}^0$): $(1/\delta) \text{CeO}_x + 1/2 \text{O}_2 \rightarrow (1/\delta) \text{CeO}_{x+\delta}$ (III).

It was found that E varies linearly with temperature for each composition of CeO_x over the entire range of temperatures: $E = a + bT$. The

equilibrium constants $K_{\text{eq}} = p_{\text{H}_2\text{O}}/p_{\text{H}_2}$ of the reduction of CeO_x by hydrogen:

$(1/\delta) \text{CeO}_{x+\delta} + \text{H}_2 \rightarrow (1/\delta) \text{CeO}_x + \text{H}_2\text{O}$ (IV) were measured in a device

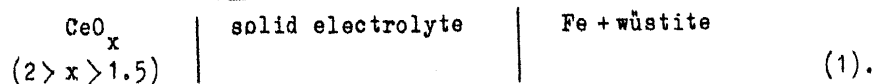
described by the authors in ZhFKh, 25, 93 (1951). Since the intermediate cerium oxides are pyrophoric, only the constants of CeO_2 or Ce_2O_3 were measured. By a combination of $\Delta \bar{G}_{\text{IV}}^0 = -RT \ln K_{\text{eq}}$ with $\Delta \bar{G}_{\text{V}}^0$ of the reaction of water-vapor formation: ($\Delta \bar{G}_{\text{V}}^0 = -59,000 + 13.38 T$) it is also possible to calculate $\Delta \bar{G}_{\text{III}}^0$. The authors' results agree well with those obtained by

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modification of the apparatus described in Ref. 7 (Ref. 8: T. N. Rezhukhina et al., ZhFKh, 35, No. 6 (1961)) for measuring the emf, namely, the cell



Mixed crystals of the system $\text{ThO}_2\text{-La}_2\text{O}_3$ with a purely ionic conductivity served as electrolytes. The CeO_x electrodes were pressed out of a mixture of corresponding amounts of CeO_2 and Ce_2O_3 at a pressure of 10 t/cm^2 . The oxygen content of the preparation was determined by measuring the emf by the method of "active oxygen". CeO_x was handled in an argon atmosphere. The values of the equilibrium emf of cell correspond to the change of the isobaric potential ($\Delta \bar{G}_I^0 = -2FE$) of the reaction releasing the current: $(1/\delta)\text{CeO}_x + \text{Fe}_{0.947}^0 \rightarrow (1/\delta)\text{CeO}_{x+\delta} + 0.947 \text{ Fe (I)}$. A combination of $\Delta \bar{G}_I^0$ with $\bar{G}_{II}^0$ of the wüstite formation from the elements:

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AUTHORS: Kuznetsov, F. A., Belyy, V. I., Rezhukhina, T. N., and
Gerasimov, Ya. I., Corresponding Member AS USSR

TITLE: Thermodynamical properties of cerium oxides

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 139, no. 6, 1961, 1405-1408 X

TEXT: The authors determined thermodynamical data on cerium which, together with data from publications, provide a complete thermodynamical characterization of the system Ce-O₂. In previous papers (Ref. 4: ZhFKh, 34, 2467 (1960); Ref. 5: ibid. 35, No. 5 (1961); Ref. 6: ibid. 34, No. 9 (1960)), they measured the high-temperature specific heat of CeO₂ and Ce₂O₃, and obtained the value $\Delta H_{298}^{\circ} = -85.43$ kcal. The present paper deals with the thermodynamical properties of cerium oxides in the CeO₂-CeO_{1.5} range of compositions. They used the emf method with a solid electrolyte (Ref. 7, see below). In addition, the authors measured the equilibrium constants of cerium oxides with hydrogen. They used a more convenient

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BELYY, V.I.

Organization of track maintenance in a station on a large cycle basis. Put' i put.khoz. no.7:4-7 '62. (MIRA 15:7)

1. Nachal'nik Debal'tsevskoy distantzii puti Donetskoy dorogi.

(Railroads--Maintenance and repair)

BELYY, V.G.; BUGAY, N.V.; IVANOV, V.V.; SHELUD'KO, V.M.

Study of fractures in the drum of a high-pressure boiler and
of methods for preventing them from originating. Energ. i
elektrotekh.prom. no.4:55-59 O-D '62. (MIRA 16:2)

1. Glavnoye upravleniye energeticheskogo khozyaystva Donetskogo
basseyna.

(Boilers)

BELYY, V.F.; YEFIMOVA, A.F.; PARAKETSOV, K.V.

Lower Cretaceous of the northeastern part of the Okhotsk-Chukchi
volcanic belt. Sov.geol. 8 no.10:97-109 0 '65.

(MIRA 18:12)

1. Severo-vostochnoye geologicheskoye upravleniye.

BELYY, V.F.

Tectonic and volcanic activity of the southern part of the Chuan-Chukchi area. Geol. sbor. [Lvov] no.5/6:264-281 '58.
(MIRA 12:10)

1. Severo-vostochnoye geologicheskoye upravleniye Ministerstva
geologii i okhrany neдр, Magadan.
(Chukchi National Area--Geology, Structural)

BELYI, V.D., prof., doktor tekhn. nauk; BOGUTSKIY, S.S., kand. tekhn. nauk

Technical specifications for diagrams and automatic control
equipment for underground conveyor lines. Bezop. truda v prom.
8 no.12:43-45 D '64. (MIRA 18:3)

1. Makeyevskiy nauchno-issledovatel'skiy institut po bezopasnosti
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RELYY, V.D.; CHUYKO, I.T.

Calculation of loads acting on the couplings of mine freight cars.

Trudy MakNII 14. Vop. gor. elektromekh. no.5:294-301 '62. (MIRA 16:6)

(Car couplings)

BELYY, V.D.; CHUYKO, I.T.; BOLDOVSKIY, N.V.; NOS, V.S.

Study of diesel mine locomotives. Trudy MakhNII Ld. Vop. gor.
elektromekh. no.5:249-265 '62. (MIRA 16:6)
(Mine railroads)
(Diesel engine exhaust gases--Analysis)

BELYY, V.D.; SAMARSKIY, A.F.

Development of technical requirements of cores for mine hoisting
cables. Trudy MakNII 14. Vop. gor. elektromekh. no.5:182-197
'62. (MIRA 16:6)

(Wire rope--Testing)

BELYY, V.D.; SAMARSKIY, A.F.

Study of the parameters for the manufacture and working capacity of
cables made of trihedral strands. Trudy MakNII 14. Vop. gor.
elektromekh. no.5:167-181 '62. (MIRA 16:6)
(Wire rope--Testing)

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Norms and methods of controlling closed-type hoisting cables. Trudy
MakNII 14. Vop. ger. elektromekh. no.5:156-166 '62. (MIRA 16:6)
(Wire rope--Testing)

BELYY, V.D.; TREYGER, M.B.

Theoretical and experimental studies of a defectoscope transducer
for closed-type cables. Trudy MakNII 14. Vop. gor. elektromekh.
no.5:88-99 '62. (MIRA 16:6)
(Electric cables--Testing) (Transducers)

BELYY, V.D., doktor tekhn. nauk; CHUYKO, I.T., inzh.

Studying reinforcements of ropes used in inclined workings.
Vop. rud. transp. no.5:351-372 '61. (MIRA 16:7)

1. Makeyevskiy nauchno-issledovatel'skiy institut po bezopasnosti rabot v gornoy promyshlennosti.
(Wire rope)

BELYY, V.D.; CHUYKO, I.T.

NAME OF AUTHOR(S) AND TITLE OF DOCUMENT

Explosionproof diesel locomotives for mines. Trudy MakNII 12:
Vop. gor. elektromekh. no.4:339-357 '61. (MIRA 16:6)

(Mine railroads---Safety appliances)

BELYY, V.D.; TREYGER, M.B.

Selection of an operating frequency for electromagnetic instruments for checking cross sections of steel cables. Trudy MakNII
12: Vop. gor. elektromekh. no.4:315-323 '61. (MIRA 16:6)

(Wire rope--Testing)
(Electromagnets)

BELYY, V.D.

Design of PTK parachute brake ropes. Trudy MakNII 12: Vop.
gor. elektromekh. no.4:284-290 '61. (MIRA 16:6)

(Mine hoisting--Brakes)

BELYY, V.D.; BLYAKHOV, I.A.

Study of the working capacity of shackles on hoisting buckets
and establishing norms for their serviceability. Trudy MakNII
12: Vop. gor. elektromekh. no. 4: 228-249 '61. (MIRA 16:6)

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BELYY, V.D.; LESIN, K.K.

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(Conveying machinery)

BELFY, V.D.; SAMARSKIY, A.F.

Development of technical conditions for closed-type mine
hoisting cables. Trudy MakNII 12: Vop. gor. elektromekh. no. 4:
184-219 '61. (MIRA 16:6)

(Wire rope--Testing)

BELYY, V.D.; SAMARSKIY, A.F.

Nature of breaking of mine hoisting cables. Trudy MakNII 12:
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(Wire rope)

BELYY, V.D.; RESHETNIKOV, V.I.

Spring-mounted brake drive for mine hoists. Trudy MakNII 12:
Vop. gor. elektromekh. no.4:88-98 '61. (MIRA 16:6)

(Mine hoisting—Brakes)

BELYY, V.D.; RESHETNIKOV, V.I.

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Trudy MakNII 12: Vop. gor. elektromekh. no.4:73-87 '61.
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(Mine hoisting—Brakes)

BELYY, V.D.; RESHETNIKOV, V.I.

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(Mine hoisting—Brakes)

BELYY, V.D.

Research performed at the Makeyevka Scientific Research
Institute for Mine Safety on safety in mine haulage and
hoisting. Trudy MakNII 12: Vop. gor. elektromekh. no.4:
57-62 '61. (MIRA 16:6)

(Mine haulage—Safety measures)
(Mine hoisting—Safety measures)

BELYY, V.D., prof.; FEDOROV, M.M., inzh.

Effect of the shoe material on the braking system design. Izv.
ucheb. zav.; gor. zhur. no.12:129-134 '60. (MIRA 14:1)

1. Donetskii ordena Trudovogo Krasnogo Znameni politekhnicheskii
institut imeni N.S. Khrushcheva. Rekomendovana kafedroy soprotiv-
leniya materialov Donetskogo politekhnicheskogo instituta.
(Hoisting machinery--Brakes) (Mine hoisting)

BELYY, V.D.; LFSIN, K.K.

Experimental study of stresses in parts of headgear sheaves. ~~Trudy~~
MakNII 11.Vop.gor.elektromekh.no.3:384-395 '60.

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(Pulleys)

(Strains and stresses)

BELYY, V.D.; OVSIYENKO, P.I.

Study of the friction properties of lining materials of driving sheaves.
Trudy MakNII 11.Vop.gor.elektromekh.no.3:364-383 '60.

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BELYY, V.D.

Dynamics of a cage-type suspension device. Trudy MakNII 11.Vop.gor.
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(MIRA 16:5)

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Study of the size and character of loads acting on the couplings of mine freight cars. Trudy MakNII 11.Vop.gor.elektromekh.no.3:214-238 '60.

(MIRA 16:5)

(Car couplings)

BELYY, V.D.

Centrifugal brakes for mine hoists. Trudy MakNII 11. Vop.gor.
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(MIRA 16s5)

(Mine hoisting---Brakes)

BELYY, V.D.

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elektromekh.no.3151-193 '60.

(MIRA 16s5)

(Car wheels)

BELYI, Vasil'y Dmitriyevich; LYSAK, Georgiy Dmitriyevich, izobretatel';
PIETRAKOV, Aleksandr Ivanovich, izobretatel', laureat Stalinskoy
premi; KOZLOV, V.K., otv.red.; D'YAKOVA, G.B., red.izd-va;
PROZOROVSKAYA, V.L., tekhn.red.; BOLDYREVA, Z.A., tekhn.red.

[Mine parachutes] Shakhtnye parashiuty. Moskva, Gos.nauchno-
tekhn.izd-vo lit-ry po gornomu delu, 1960. 316 p.

(MIRA 14:4)

(Mine hoisting--Safety appliances)

NAYDENKO, Ivan Samoylovich; BELYY, V.D., otv.red.; SHOROKHOVA, A.V.,
red.izd-va; SABITOV, A., tekhn.red.; BHKKER, O.G., tekhn.red.

[Inspection, adjustment and testing of brake systems on mine
hoisting machines] Reviziia, naladka i ispytanie tormoznykh
ustroistv shakhtnykh podzemnykh mashin. Moskva, Gos.nauchno-
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(MIRA 13:5)

(Mine hoisting)

(Hoisting machinery--Brakes)

Mining Industry (Cont.)

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Ch. II. Hoisting Conveyances (Vlasenko, B. N., Engineer)	14
Ch. III. Hoisting Ropes (Belyy, V. D., Professor, Doctor of Technical Sciences)	46
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Mining Industry (Cont.)

COVERAGE: Volume VIII of the mining handbook contains detailed information on mine hoisting installations, machines and equipment, mine ventilation units, duct systems, dewatering facilities, various types of pumps, ~~pump meters, pumping stations~~, and the automatic remote control of these units. The handbook also describes and explains the operation of the air compression units and compressors. Heat-generating and heat-supply equipment of mines is described, as are the electric power supply systems and other electrical equipment such as transformers, power distribution systems, and grounding devices. Telephone communication and signaling systems used in mines are also treated. No personalities are mentioned. Each part of the handbook is accompanied by references, mostly Soviet.

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PURPOSE: This handbook is intended for mining and mechanical engineers as well as for other skilled personnel of the mining industry concerned with the handling and operation of various installations and equipment used in mines.

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Mining Industry (Cont.)

Babak, Candidate of Technical Sciences, V. D. Belyy, Professor, Doctor of Technical Sciences, K. S. Borisenko, Candidate of Technical Sciences, A. G. Borumenskiy, Candidate of Technical Sciences, I. V. Brusilovskiy, Candidate of Technical Sciences, A. R. Bushel', Candidate of Technical Sciences, V. P. Bukhgal'ts, Engineer, M. N. Vasilevskiy, Candidate of Technical Sciences, A. N. Vas'kovskiy, Engineer, B. N. Vlasenko, Engineer, I. Ya. Gershikov, Engineer, V. G. Geyer, Professor, Doctor of Technical Sciences, A. D. Dimashko, Engineer, V. S. Dulin, Candidate of Technical Sciences, I. L. Lokshin, Engineer, B. M. Melamed, Engineer, Yu. A. Mikheyev, Engineer, V. P. Morozov, Engineer, M. I. Mushkatin, Engineer, V. S. Pak, Academician, I. M. Perskaya, Engineer, N. M. Rusanov, Candidate of Technical Sciences, G. P. Savel'yev, Candidate of Technical Sciences, Ya. M. Smorodinskiy, Candidate of Technical Sciences, K. A. Ushakov, Honored Scientist and Technologist, Professor, Doctor of Technical Sciences, B. M. Furmanov, Engineer, and N. N. Chernavkin, Engineer. Eds.: Ya. M. Drozdov, Engineer, B. I. Zasadych,

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BELYY, V. D.

PHASE I BOOK EXPLOITATION

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Gornoye delo; entsiklopedicheskiy spravochnik. t. 8: Statsionarnoye elektromekhanicheskoye oborudovaniye. Elektrosnabzheniye shakht (Mining Industry; an Encyclopedic Handbook. v. 8: Stationary Electro-mechanical Equipment. Electric Power Supply to Mines) Moscow, Gosgortekhzdat, 1960. 784 p. Errata slip inserted. 18,500 copies printed.

Chief Ed.: A. M. Terpigorev (Deceased); Members of the Editorial Board: A. I. Baranov, F. A. Barabanov (Deceased), A. A. Boyko, V. K. Buchnev, A. N. Zaytsev; Deputy Chief Eds.: I. K. Kit and N. V. Mel'nikov; I. N. Plaksin, N. M. Pokrovskiy, A. A. Skochinskiy (Deceased), A. O. Spivakovskiy, I. K. Stanchenko, A. P. Sudoplatov, A. V. Topchiyev, S. V. Troyanskiy, A. K. Kharchenko, L. D. Shevyakov and M. A. Shchedrin; Editorial Board for this volume: Resp. Ed.: F. A. Barabanov; Deputy Resp. Ed.: Z. M. Melamed; N. A. Arzamasov, G. M. Yelanchik, V. K. Yefremov, B. I. Zasadych, I. M. Zhumakhov, N. A. Letov, P. P. Nesterov, I. A. Rabinovich, K. I. Skorkin, and V. A. Sumchenko; Authors: G. A.

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BMLYY, V.D.

Resistance of cable guides to transverse deviations of hoisting
containers. Trudy MakNII 9 no.2:432-456 '59. (MIRA 12:8)
(Mine hoisting--Equipment and supplies)

~~BELYY, V.D.; TIMOSHENKO, A.T.~~

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MakNII 9 no.2:399-417 '59. (MIRA 12:8)
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during use. Trudy MakNII 9 no.2:349-365 '59. (MIRA 12:8)
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BELYY, V.D.; VAYSMAN, B.A.; LMSIN, K.K.

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330 '59. (MIRA 12:8)
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BELYY, V.D.

Dynamic forces in mine hoisting ropes. Trudy MakNII 9 no.2:
228-277 '59. (MIRA 12:8)
(Hoisting machinery) (Wire rope)

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[Rope guides for mine hoisting installations] Kanatnye provod-
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BELYY, V.D., otv.red.; KAUFMAN, A.M., red.izd-va; BEREZSLAVSKAYA,
L.Sh., tekhn.red.

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countries] Pod'em i poverkhnost' na ugol'nykh shakhtakh za
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1. Makeyevskiy nauchno-issledovatel'skiy institut po bezopasnosti
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(Cables--Testing)

BELYI, Vasilii Dmitriyevich (Stat Kameyev Sci-Res Inst of Work Safety in the Mining Industry) awarded sci degree of Doc Tech Sci for 8 Jun 55 defense of dissertation "Rope Guides [Kanatnyye provodniki] in Underground Mining Establishments" at the Council, Leningrad Mining Inst imeni Plekhanov; Prot No 5, 1 Mar 58.

(BMVO, 6-58,24)

BELYY, V. D.,

"Rope Guides in Shaft Elevators." (D,ssertation for Degree of Doctor of Technical Sciences) Min Culture USSR, Leningrad Orders of Lenin and Labor Red B'rner Mining Inst. Makeyevka, 1954

SO: M-1036 28 Mar 56

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(314) (1952)

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of artificial nucleation centers enhances ordering and minimizing of the super-molecular structures in the polymer and contributes to lowering the self heating temperature during cyclic loading. Orig. art. has: 6 figures. [AM]

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